Date Report Submitted: July 2, 1975

ENVIRONMENTAL PROTECTION AGENCY AIR POLLUTANT EMISSIONS REPORT

FORM APPROVED OMB NUMBER 158-R75

SECTION I - GENERAL		For Official Use Only: Date Sent: Date Returned: UTM Grid Coordinates: SIC No.: Source ID:	
Plant, institution, or establishment name: Caterpillar Tractor Co Jolie	et Plant	THE RESERVE OF THE PARTY OF THE	P ^a
Plant, institution, or establishment address: P.O. Box 504 (Street or Box Number)	Joliet (City)	Illinois (State)	60434 (Zip)
Person to contact regarding this report: Robert F. Vonachen	S 15/5	Ingineer Telephon	01 = = 00 =
Mailing address: P. O. Box 504 Joliet	lise Sections of Christoperical [I continuous \$145 of The A		0434
(Street or Box Number) (City)			Zip)
Approximate number of employees at plant, institution, or establishment location:	Less than 100 🔲 100 or mo	ore.	
Elevation of plant, institution, or establishment in relationship to mean sea level:	feet above mean	sea level,fee	et below mean sea level.
Information is representative of calendar year: 1974-75			
Land area at plant location: 401 acres. Enclose a sketch of layout if there	is more than one building.	The same of the sa	
Plant location: (give nearest cross streets, describe by landmarks or enclose a map, en	ngineering drawing, or sket	ch)	
Route 6 Plant - U.S. Route 6 Channahon Rd. 1 mile SE of Lark	kin Avenue, Joliet,	Illinois	
Building F - W. McDonough St., Joliet, Illinois			
Air pollutants of the type indicated in the instructions for the completion of this reare not emitted at this plant, institution or establishment. Therefore, no other Sec	* 5	_	
Please return all sections of this report to:		, , , , , , , , , , , , , , , , , , ,	
Transcribert and political of this report to			

SECTION II - FUEL COMBUSTION FOR GENERATION OF HEAT, STEAM, AND POWER

Plant, institution, or establishment name:	Caterpillar Tractor Co Joliet Plant
Normal operating schedule for fuel use: 24	Hours per day 7 Days per week 52 Weeks per year 8736 Hours per year. Route 6 heating plant - 7 - 10
Dates of annually occurring shutdowns of oper	ations: days mid July each year

r= /	Sourcea,e Code	Code Sources b,e (Boilers) Unit (Input) c,e 106BTU/hr.		Type of Unit d,c	Installation Date	Percent Excess Air Used In Combustion (Design)	Power Output Megawattse,t
#1	1 02 006 02			Gas fired	1951 - modifie	ed 20	NA
#2	1 02 002 09	1 1 1 1 1 1 1	100	Spreader stoker	1951	9 = 1	
#3	1 02 002 04	1	125	Spreader stoker	1953		
#4	1 02 006 01	006 01 1 125		Dual fuel - NG & spreader stoker	1968 modified to N.G. 1973		23
MJ4187	1 02 006 02	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	37.11	Gas fired	1968	The state of the s	
MJ4188	1 02 006 02	1	37.11	Gas fired	1968	I man and the second	

a. List a separate code number to represent each source (e.g., II-a, II-b, II-c, etc.), then enter the same code number and the required data on the continuation of this Section on Page 3, and in Sections V and VI.

b. Multiple sources may be grouped if units are similar in size and type, burn the same fuel, or are vented to the same stack.

c. Nameplate data are sufficient (give rated or maximum capacity, whichever is greater).

d. Hand-fired, underfeed, overfeed, traveling-grate or spreader stoker; cyclone furnace; pulverized, wet or dry bottom with or without fly ash reinjection; rotary or gun type oil burner; etc.

e. List separately future equipment and expected date of installation.

f. Power generation only.

#1

#2

#3

#4

MJ4187

MJ4188

SECTION II - FUEL COMBUSTION FOR GENERATION OF HEAT, STEAM, AND POWER (continued)

Plant, institution, or establishment name:_

Caterpillar Tractor Co. - Joliet Plant

			Annual	Consum	ption		Hourly Consumption						21	
Source Code	Type		Percen	t Distrib	ution by	Season	<u> </u>		Percent	Heat	nt Sulfure f	Percent Ash (Solid Fuel Only) e,f	Delivered Cost of	Future
	of Fuel ^b	Quantity	Spring March/ May	Summer June/ Aug.	Fall Sept./ Nov.	Winter Dec./ Febr.	Maximum A	Average	Used for Space Heat	Content BTU/Quan.e			Fuel \$/Quantity	Useg
	Nat gas	220,000	22.4	8.4	30.1	39.1	100	•	43	1036		V ndr		- /
	Bitum Coal	7,000	47.6	0	17.9	34.5	4.37	Taj i	43	11076	3.9	10.7		1
	Bitum Coal	9,000	30.3	0	30.8	38.9	5.48	/	43	11076	3.9	10.7		/
	Nat gas	272,000	22.2	23.0	23.3	31.5	125	Control of	43	1036			X	
	Nat gas	40,000	23.5	21.9	22.1	32.4	35.82	4.380	43	1036				
	Nat gas	40,000	23.5	21.9	22.1	32.4	35.82	4.380	43	1036		Type of the		
									. 15	, , , , , , , , , , , , , , , , , , ,			/	

- a. List code numbers corresponding to each source referred to on page 2, (e.g., II-a, II-b, II-c, etc.), then enter required data on this page, and for the same code number sources in Sections V and VI.
- b. Coke, bituminous coal, anthracite coal, lignite; No. 1, 2, 4, 5 and 6 fuel oil; natural gas; LPG; refinery or coke oven gas; residual coke; wood; bark; sludge; etc. (Note: Indicate if two or more fuels are burned in the same boiler and provide all data pertinent to each fuel type.)
- c. Fuel data are to be reported on an "as burned" basis.
- d. Solid fuel, tons; liquid fuel, gallons; gaseous fuel, 1000 cubic feet.
- e. If unknown, please give name and address of fuel supplier.
- f. Sulfur and ash content for each fuel should be a weighted average.
- g. Estimated percent increase or decrease in fuel usage (by fuel type) per year for the five years after the calendar year for which this report is completed. If increase is due to new equipment, please list this equipment separately on page 2 and the expected fuel use on this page.

NOTE: Please read reverse side of this page. Use additional sheets if necessary. Retain last copy.

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SECTION III - COMBUSTIBLE SOLID AND LIQUID WASTES DISPOSAL

Plant, insti	tution, or	establishm	ent name:	Caterpillar Tra	actor Co	Joliet	Plant			
Combustib	le solid ar	nd liquid wa	astes dispos	ed of \square on site, \square off si	te, 🗌 both on	and off sit	te. If off site	e, location of dispos	sal site and/or name	e of hauler: Banner Dis
		Trucking	Co. & B	rowning (If dispos						er of this page and
Section	s IV, V an	nd VI; other	Ferris I rwise, skip t	ndustries to Section IV.)						
Normal on	-site comb	oustion oper	rating sched	lule:Hours per	day	Days per	week	Weeks per yea	arHours	per year.
Seasonal ai	nd/or peal	k operation	period: (Sp	pecify)		ricus service			LANGE STATE	-
Dates of a	nnually o	ccurring sh	utdowns of	operations:			Ado	ditional operating in	nformation enclosed	l 🔲.
	77	Vesta Mata	rial	are the set are at end of rest	F			De Asset Co	Pagarage 9	
Source	Waste Material			m 3 for motify to metal	Installation	Rate, lbs.		Auxiliary Fuel	Percent Excess Air Used in Com-	Future Disposalt
Source Code ₂	Турєь	Amount Per Year	Percent Combust- ible	Method of Disposald	Date	Average	Maximum	Usede	bustion (Design)	Tuture Disposar
	7			al or a set a an ingstep	7/1.14	ti gride		o entre ted, to	Tagend and	
			Listri III	historia Bilki hissoria		1 11 2 1	* 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		officer delan	
	a		n contrac	1 121 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		- 1500 11		the offer age ga	mail to parter	X
							A TURN OF THE PARTY OF THE PART			
	and a									

- a. List a separate code number to represent each source (e.g., III-a, III-b, III-c, etc.), then enter required data on this page and for the same code number sources in Section V and VI.
- b. Rubbish, garbage, mixed garbage and rubbish, waste paper, wood chips or sawdust, etc.
- c. Tons, pounds, or gallons/year.
- d. Open burning dump; incinerator, single chamber; etc. (See instructions for examples and use appropriate identification numbers; other non-listed methods, specify.)
- e. Indicate whether auxiliary fuel is used in incinerators and pit burning, and the amount.
- f. Estimated increase or decrease in combustible solid and liquid wastes disposal rate for the five years after the calendar year for which this report is completed. If increase is due to new equipment, please list this equipment separately.

Date Report Submitted:

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SECTION IV - PROCESS/OPERATIONS EMISSIONS

Plant, in	nstitution, or esta	ablishment	name:	Cater	pillar Tra	ctor Co J	Joliet P	lant						
Codea Pollutants Went on Type Hourly Process Rate the Type Annual Hourly Process Pate the Only: Decrease														
Seasona	l and/or peak op	eration per	iod:			- Company of the Comp								
Dates of	f annually occurr	ring shutdo	wns of op	erations:		a mistra sadit	and me of	A	dditional oper	ating informat	ion enclosed].		
	and the first of the second of	COLUMN CO. CO.	Raw Ma	terials Use	d for Processes	s or Operations	Proc	ducts of Pr	ocesses or Ope	rations	T	D		
Source				ican i ii ii ii	Quantity	A Royal Bridge		Qua	ntity	Operation	Futurei In- crease or			
Codea			Type	Annual	Hourly Proc	ess Rate, lbs.	Type		Hourly Proce	ess Rate, lbs.		Decrease in Process		
	Dide set Configuration Set and Administration 1	Dine	Bine	Line	azemie s		Design	Maximum		and harman	Design	Maximum		Rate
		117							went hertel	i li tatasmini	7.4			
		A.	(3) 40 (g) (0 - 8 (c)	a.v.a.b.	t he ed as	1 1 1 1 1 1 1 1	and but	ration suite	n. 1 odla en s olo e meso fo	on a abrodost	nl "			
		4%	- 147 40 141 1 1 11 11 11 11 11 11 11 11 11 11 11	Sheat off a		or water grand t	10 31 110	s 7 April	territorial ser e en rede	it by of helf	6. <u>/</u>	X		
		Į,		Of early offi	a Tella Illa Du Il largon ben				The suff of	or same safe)- (1)			
									12 11 11 1	hallma soul A	Tit			

- a. List a separate code number to represent each source (e.g., IV-a, IV-b, IV-c, etc.) then enter required data on this page and for the same code number sources in Sections V and VI.
- b. Multiple sources may be grouped if similar in size and type.
- c. Sulfuric acid-contact; aluminum smelting-crucible furnace; cement manufacturing-dry process; etc. (See instruction for examples and use appropriate identification numbers; other non-listed processes and operations, specify.)
- d. The pollutants to be covered in this report are listed in the accompanying instructions.
- e. Sulfur burned; pig, foundry returns, or scrap aluminum melted; limestone, cement rock, clay, iron ore used; etc.
- f. Pounds, tons, gallons, barrels, etc.
- Sulfuric acid produced; aluminum ingots produced; cement produced; etc.
- h. For intermittent processes, indicate average number of hours per week of operation so that estimates of yearly emissions may be obtained.
- Estimated percent increase or decrease in process rate on a total plant basis for the five years after the calendar year for which this report is completed. If increase is due to new equipment, please list this equipment separately.

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SECTION V - AIR CLEANING EQUIPMENT

Plant, institution, or establishment name: Caterpillar Tractor Co. - Joliet Plant

	Source	Trunc of A sh out of	Installation	Pollutant	Effic	eiency •	Inlet Gas	Inlet Gas	Exit Gas
	Code _a	Type of Air Cleaning Equipment b,c	Datec Removed c, d		Design Operating Percent Percent		Temperature, °F	Flow Rate, f CFM	Pressure, PSI
#1		Multiclone	1951	Particulate	93	Unknown	410	36,200	Unknown
#2		Multiclone and SO ₂ Wet scrubber	1951 and 1974	Particulate	Part 99 SO ₂ 75+	Unknown	410	36,200	Unknown
#3		Multiclone and SO ₂ Wet scrubber	1953 and 1974	Particulate SO ₂	Part 99 SO ₂ 75+	Unknown	410	45,300	Unknown
#4		Multiclone	1968	Particulate	94.6	Unknown	510	48,000	Unknown
4J4187		None	oji namovijima koje. Po jeda akoji kojim	refusione for type	at our une	ing the a lives	giosi (Sapitae in Po Is Lang Islang (Leas	eathled to per-	
1J4188		None le march	. matter it is a	to other others, or our the con-	en Ingh ya galar i In	here.	ige to a minimum rigge per tell p	ar, aboʻl seji dir. Kersialiyyenga	
								THE PERSON NAMED IN PARTY OF THE PARTY OF TH	

- a. List code numbers corresponding to each emissions source reported in Sections II, III, and IV.
- b. Wet scrubber, electrostatic precipitator, fabric filter, etc. (See instructions for examples and use appropriate identification numbers; other non-listed type, specify.)
- e. Please list future equipment separately.
- d. The pollutants to be covered in this survey are specified in the accompanying instructions.
- e. Give efficiency in terms of pollutant removed.
- f. At actual flow conditions.

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SECTION VI - STACK AND POLLUTANT EMISSIONS DATA

Plant, institution, or establishment name: Caterpillar Tractor Co. - Joliet Plant

				STACK DATA	ESTIMATE OF POLLUTANT EMISSIONS.						
	W					Exit G	as Flow		Qua	ntity	
	Source	Height Above	Inside Diameter	Exit Gas Velocity,b	Exit Gas	Rate,	CFM _c	Pollutant ^d	Tons Per Year	Lbs. P	er Hour
	Codea	Grade ft.	at Top, ft.	ft./sec.	Temperature, b	Average Ma		ronutanta		Average	Maximum
 #1	Automore Louis	78	5	48.8	450		57,388	Particulațe	°2 None	and facilities with the second	.17 None
# 2		78	4.3	39	200		44,547	Particulate	.6 129.4	THE SEAL OF THE PARTY OF THE PA	.7 161.5
 #3		78	5	38.2	200		58,672	Particulate	.7 166.3		.9 202.5
<i>‡</i> 4		78	5	40.8	510		48,000	Particulate	.2 None	(.2 None
MJ4187		75	5	12.1	510		14,300	Particulate	.03 None		.06 None
MJ4188		75	5	12.1	510		14,300	Particulate	.03 None		.06 None

- a. List code numbers corresponding to each emissions source reported in Sections II, III, and IV.
- b. Values should be representative of average flow conditions for hours of operation.
- c. At actual flow conditions.
- d. The pollutants to be covered in this survey are specified in the accompanying instructions.
- e. Give stack test data if available (indicate stack sampling method used), otherwise, specify basis used. If unknown, please do not complete these columns.